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## PATENT ABSTRACTS OF JAPAN

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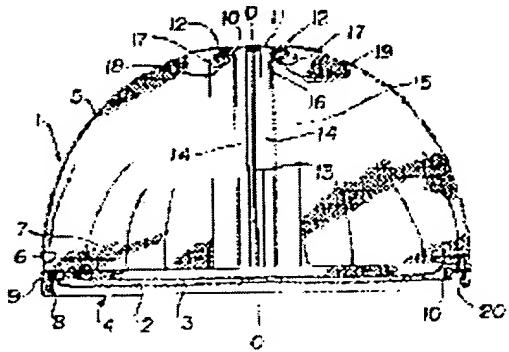
(71)Applicant : TOOTEX KK  
 (72)Inventor : MORI SADAYORI

## (54) WASHING NET

## (57)Abstract:

PURPOSE: To easily produce the washing net, which can satisfactorily keep the shape corresponding to laundry, by forming the bottom piece of the washing net with two pieces of upper and lower meshed clothes and interposing a loop-shaped wire corresponding to the shape of the entire outer peripheral edge of the bottom piece between both the meshed clothes when sewing the bottom piece and the main body of a bag.

CONSTITUTION: Concerning a washing net 1, the entire is semispherically formed, and a bottom piece 4 is formed by two pieces of meshed clothes 2 and 3. Then, a lower end peripheral edge 6 of a main body 5 of the bag is sewn through a sewing part 9 to a peripheral edge 8 of the bottom piece 4 by tack sewing to perform sewing with tacks 7. In this case, a loop-shaped wire 10 formed corresponding to the entire outer peripheral edge shape of the bottom piece 4 is interposed between both the meshed clothes 2 and 3 at the time of sewing the bottom piece 4 and the main body 5 of the bag, and tack sewing is performed. Thus, the loop-shaped wire 10 is positioned inside the sewing part 9 between both the meshed clothes 2 and 3. Besides, an opening part 11 is formed over the full length of the main body 5 of the bag in the direction of a diameter line, and a tape 14 of a slide fastener 13 is sewn at an opening edge 12 of the opening part 11.



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**CLAIMS**

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**[Claim(s)]**

[Claim 1] In a wash network with which a soffit periphery of a main part of a bag which is formed in a periphery of a piece of a bottom of a reticulated textile in the shape of an abbreviation semi-sphere by reticulated textile, and is opened and closed with a slide fastener is sewn on A wash network with which an annular filament which a piece of a bottom consisted of reticulated-textiles of two upper-and-lower sides, made a configuration of a \*\*\*\*\* periphery edge agree between said reticulated textiles of two sheets in the attaching-by-sewing section to a soffit periphery of a main part of a bag, and fabricated is infixd.

[Claim 2] A wash network according to claim 1 with which a reticulated abbreviation semicircle-like textile puts on the upper surface of a reticulated textile of an upside which constitutes a piece of a bottom, it is sewn on a soffit periphery of a main part of a bag with a periphery of a piece of a bottom, \*\*\*\* is opened in an arc periphery, and a pocket is formed between reticulated textiles of a piece upside of a bottom.

[Claim 3] A wash network according to claim 1 or 2 with which opening by slide fastener of a main part of a bag is formed covering the direction overall length of circles of longitude of a main part of a bag, and a \*\* form filament covering an opening overall length is infixd in attaching-by-sewing circles of a slide zipper tape and a opening edge.

[Claim 4] Claim 1 currently formed in the shape of an abbreviation semi-sphere when a main part of a bag sews a periphery edge of a plate-like reticulated textile on a piece periphery of a bottom by tuck sewing, a wash network according to claim 2 or 3.

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[Translation done.]

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## DETAILED DESCRIPTION

## [Detailed Description of the Invention]

[0001]

[Industrial Application] This invention relates to amelioration of the wash network of garments with the need of stopping generating of deformation of the washing, such as garments made from a race, a brassiere, a hat, and a hat with a flange, an organization gap, and a fray etc. to the minimum.

[0002]

[Description of the Prior Art] Although the wash bag already shown in JP,3-6305,Y as a wash network meant so that deformation of the washing-ed might be prevented is known, a free passage bag must be made from a tape tough for \*\* form filament infixation, this must be sewn on a bag body, and it has the problem which causes the jump of a conversion cost and a material cost.

[0003]

[Problem(s) to be Solved by the Invention] Each invention of claim 1 thru/or claim 4 has the good firmness ability to the washing-ed, is easy structure and makes it the technical problem to offer the wash network which can be easy also for a fabrication and can supply it at a low price.

[0004]

[Means for Solving the Problem] In invention of claim 1, a piece of a bottom of a wash network was made into a reticulated textile of two upper and lower sides, and it considered as a configuration of infixing an annular filament which a configuration of a \*\*\*\*\* periphery edge was made agreeing and was fabricated between said reticulated textiles of two sheets in the attaching-by-sewing section of a main part of a bag, and a piece of a bottom.

[0005] In invention of claim 2, a reticulated abbreviation semicircle-like textile was put on the upper surface of a reticulated textile of a piece upside of a bottom, and it sewed on a soffit periphery of a main part of a bag with a periphery of a piece of a bottom in an arc periphery, and considered as as [ disconnection of \*\*\*\* ], and a configuration of forming a pocket between reticulated textiles of a piece upside of a bottom was added to invention of claim 1.

[0006] In invention of claim 3, opening opened and closed by overall length of the direction of circles of longitude of a main part of a bag with a rear spring supporter and a slide fastener was formed in invention of claim 1 or claim 2, and a configuration of infixing a \*\* form filament covering an overall length of opening in the attaching-by-sewing section of a slide zipper tape and a opening edge was added.

[0007] Moreover, in invention of claim 4, a periphery edge of a plate-like main part of a bag was sewn on a piece periphery of a bottom by tuck sewing, and a configuration of forming a main part of a bag in the shape of an abbreviation semi-sphere was added to invention of claim 1, claim 2, or claim 3.

[0008]

[Function] In invention of claim 1, in case the main part of a bag and the piece of a bottom are sutured, since the \*\* form structure of a pars basilaris ossis occipitalis is completed only by inserting and suturing an annular filament between the reticulated textiles of two upper and lower sides of the piece of a bottom, an attaching-by-sewing process becomes it is remarkable and easy.

[0009] moreover, the main part of a bag -- abbreviation -- it also has the firmness of a solid configuration a hemispherical thing and by attaching the slide fastener in opening.

[0010] According to invention of claim 2, Japanese lacquer, a race product, etc. can prevent breakage on the race at the time of wash, and deformation by washing a hat by considering as a half-chip box and inserting the half-section into a pocket by inserting the eaves of a hat into the pocket on the upper surface of the piece of a bottom, without producing deformation of eaves.

[0011] According to invention of claim 3, since a rear spring supporter and firmness become strong at the overall length of the direction of circles of longitude of the main part of a bag, the firmness of a pars basilaris ossis occipitalis is suited and it waits, and the firmness of an abbreviation semi-sphere-like wash network improves remarkably.

[0012] Moreover, since the \*\* form filament of the direction of circles of longitude can be simultaneously attached at the time of the attaching-by-sewing process of a slide zipper tape and a opening edge, the increase of an attaching-by-sewing process is not caused.

[0013] According to invention of claim 4, there is no need for the main part of a bag of suturing and fabricating to the shape of an abbreviation semi-sphere beforehand, sewing can be carried out in the shape of an abbreviation semi-sphere only in tuck sewing, and the abbreviation of a sewing process can be performed.

[0014] the periphery edge of a plate-like reticulated textile -- tuck sewing -- the piece periphery of a bottom -- sewing on -- the main part of a bag -- abbreviation -- since it is hemispherical, while the inner capacity of a wash network increases, firmness arises on the main part of a bag itself, and the firmness as a wash network becomes remarkably large by merge application with both invention of claim 1 and claim 3.

[0015]

[Example] Drawing 1, drawing 2, and drawing 3 show an example of the operation which combined and applied three invention of claim 1, claim 3, and claim 4.

[0016] the abbreviation in the publication of a description although the wash network 1 is shown as a hemisphere in this example -- it is used as an expression which contains a half-spheroid, half-revolution \*\*\*\*\*, flat \*\*\*\*\* , etc. other than the hemisphere like the example of a graphic display as it is hemispherical.

[0017] It is sewn on the periphery 8 of said piece 4 of a bottom by the attaching-by-sewing section 9 by tuck sewing to which the soffit

periphery 6 of the main part 5 of a bag which the piece 4 of a bottom consists of reticulated textiles 2 and 3 of two upper and lower sides, and is made plate-like sutures it, the wash network 1 taking a tuck 7.

[0018] The main part 5 of a bag which was plate-like is made the configuration where it bulged in the shape of an abbreviation semi-sphere by said tuck sewing.

[0019] Like the above, the configuration of all the periphery edges of the piece 4 of a bottom is made to agree among the reticulated textiles 2 and 3 of two upper and lower sides at the time of attaching by sewing with the piece of a bottom and the soffit periphery 6 of the main part 5 of a bag which consist of reticulated textiles 2 and 3 of two upper and lower sides, the annular filament 10 fabricated beforehand is infixed in it, and tuck sewing is performed at it.

[0020] Consequently, the annular filament 10 will be located inside [ between the reticulated textiles 2 and 3 of two upper and lower sides ] the attaching-by-sewing section 9, as shown in drawing 3.

[0021] As an annular filament 10, a synthetic-resin coating low carbon steel wire, a stainless steel line, etc. are desirable.

[0022] abbreviation -- the rear-spring-supporter opening 11 is formed in the overall length of direction O-O of circles of longitude, and the slide zipper tape 14 of the slide fastener 13 is sewn on the opening edge 12 of opening 11 by the main part 5 of a bag made hemispherical.

[0023] By the example of a graphic display, the husk of the edge of said opening edge 12 and slide zipper tape 14 is carried out on a tape 15, and it is sewn on one in the attaching-by-sewing section 16.

[0024] the attaching-by-sewing circles formed in the attaching-by-sewing section 16 -- a rear spring supporter and the \*\* form filaments 18 and 19 are infixed in the overall length of opening 11 17.

[0025] Like the annular filament 10, using the synthetic-resin coating low carbon steel wire, the stainless steel line, etc., the \*\*\*\* filaments 18 and 19 make the bow configuration of opening 11 agree beforehand, and are fabricated.

[0026] The sign 20 in drawing is a husk tape, and a sign 21 is the slider of the slide fastener 13.

[0027] Drawing 4 and drawing 5 show an example of the operation which combined and applied four invention of claim 1 thru/or claim 4. A part is cut, the shown main part 22 of a bag is made into a half-spheroid, the piece 23 of a bottom is made into the abbreviation ellipse form. this piece 23 of a bottom consists of reticulated textiles 24 and 25 of two upper and lower sides, and the annular filament 26 is infixed among these reticulated textiles 24 and 25. The slide fastener 27 is attached on minor-axis line P-P of that the main part 22 of a bag is sewn on the piece 23 of a bottom by tuck sewing, and the bag subject 22. It is the same structure as the example shown in drawing 1 thru/or drawing 3 that the \*\* form filament is infixed in the attaching-by-sewing circles of the opening edge of opening 28 and a slide zipper tape etc.

[0028] In invention shown in this drawing 4 and drawing 5, the reticulated abbreviation semicircle-like textile 29 puts on the upper surface of the upper reticulated textile 24, and it is sewn on the soffit periphery 32 of the main part 22 of a bag with the periphery 31 of the piece 23 of a bottom in the arc periphery 30.

[0029] \*\*\* 33 of the reticulated textile 29 is opened and the pocket 34 is formed between the reticulated textiles 29 of the piece 23 upside of a bottom.

[0030]

[Effect of the Invention] In invention of claim 1, an annular filament is infixed between the reticulated textiles of two upper and lower sides of the piece of a bottom, and since the \*\* form structure of a pars basilaris ossis occipitalis is completed only by sewing this reticulated textile on with the main part of a bag, the effect which it is remarkable and can simplify the attaching-by-sewing process of \*\*\*\*\* is done so.

[0031] moreover, the main part of a bag -- abbreviation -- the effect that the main part of a bag can maintain a solid configuration is done so by attaching the slide fastener in hemispherical things and hemispherical opening.

[0032] According to invention of claim 2, deformation and the effect which can be washed are done so for the flange of a hat, a race product, etc. by inserting into a pocket deformation of the washing-ed and the portion which is easy to damage, without making it damage.

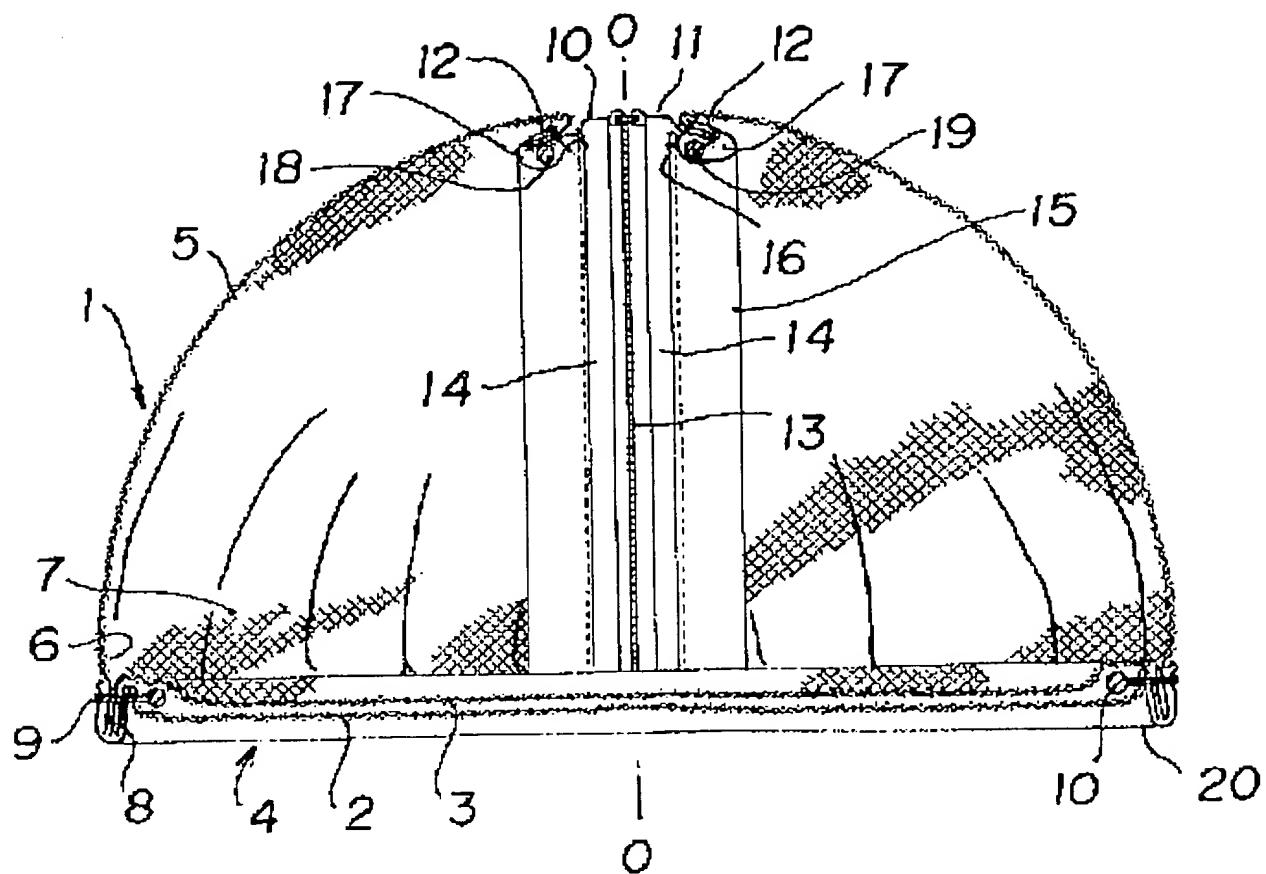
[0033] According to invention of claim 3, rear-spring-supporter firmness becomes strong at the overall length of the direction of circles of longitude of the main part of a bag, and the firmness of the whole abbreviation semi-sphere-like wash network improves.

[0034] Since installation of the \*\* form filament of the direction of circles of longitude can be simultaneously performed at the time of the attaching-by-sewing process of a slide zipper tape and the opening edge of opening, the effect which does not cause the increase of an attaching-by-sewing process is done so.

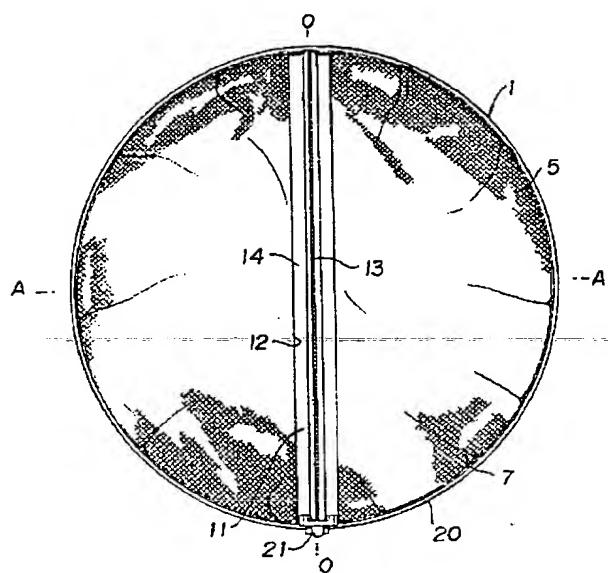
[0035] According to invention of claim 4, there is no need of suturing and fabricating the main part of a bag to the shape of an abbreviation semi-sphere beforehand, sewing can be carried out in the shape of an abbreviation semi-sphere only at one process of tuck sewing, and the effect which can simplify a sewing process is done so.

[0036] tuck sewing -- the main part of a bag -- abbreviation -- since it is hemispherical, while the inner capacity of a wash network increases, firmness also increases by the tuck portion.

[Translation done.]



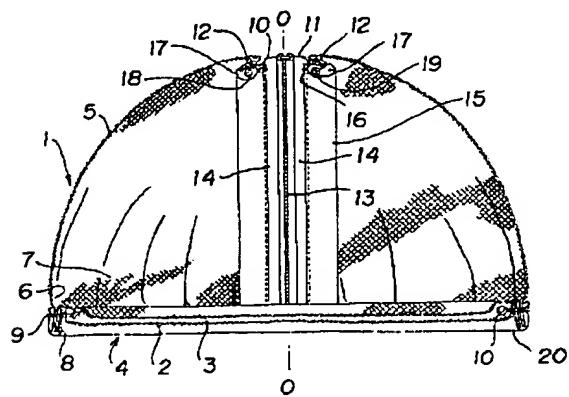
Drawing selection drawing 2



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Drawing selection drawing 3

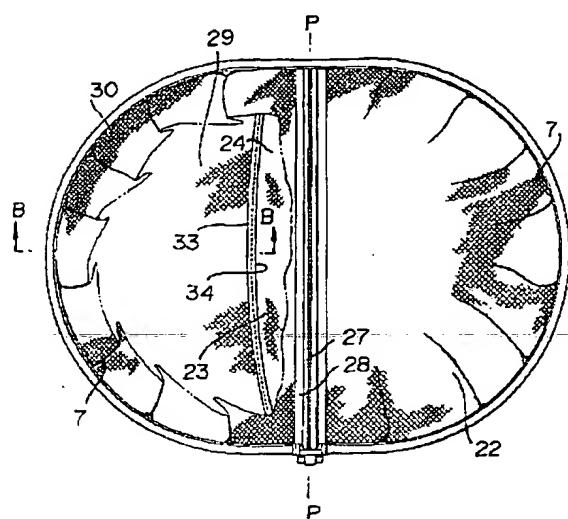
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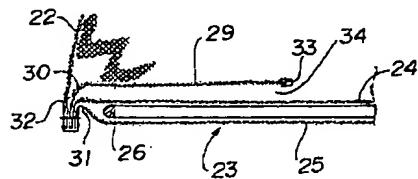
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Drawing selection drawing 4



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